

# Fluvial terrace system in the Ipeľská kotlina basin.

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The Pliocene-Quaternary relief of sedimentary basins in the Ipeľ River catchment has been investigated since the beginning of the 20th century when the role of faults in morphological structures was recognized by Hungarian researchers (Matlekovics 1900, Noszky 1940, Peja 1941, Vass 1960, 1961, Vass et al. 1979, Pristaš 1965, 1966, 1968, etc.). Objectives of our contribution are to summarize existing knowledge about terraces of the Ipeľ River and its tributaries in the Ipeľská kotlina basin (South Slovakia, Northern Hungary); to explain the evolution of the Quaternary Terrace system following geological data and geomorphologic analyses; to reveal the tectonic history of the investigated area and to propose various dating methods for extending the database of fluvial sequences.

Methods we have used for it are morphostructural and morphometric analysis: longitudinal and transverse river valley profiles, analyses of basin and valley symmetries, investigation of alluvial terraces.

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